Appl. No.: 10/646,239
Attorney Docket: 2002B117/2
Amdt. dated April 5, 2006
Reply to Final OA of January 5, 2006

Amendment to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-55. (Cancelled)

56. (Previously Presented) A multilayer stretch film comprising:

　　　　a first surface layer,

　　　　a second surface layer, and

　　　　a core layer disposed between the first and second surface layers,

　　　wherein the core layer comprises a polyethylene copolymer having a Compositional Distribution Breadth Index (CDBI) of at least 70%, a melt index $I_{2.16}$ of from 0.1 to 15 g/10 min., a density of from 0.910 to 0.940 g/cm^3, a melt index ratio $I_{21.6}/I_{2.16}$ of from 30 to 80, and an Mw/Mn ratio of from 2.5 to 5.5, and

　　　　wherein the film has a natural draw ratio of at least 250%, a tensile stress at the natural draw ratio of at least 22 MPa, and a tensile stress at second yield of at least 12 MPa, as measured according to ASTM D-882/97.

57. (Original) An article wrapped with the film of Claim 56.

58. (Previously Presented) The film of claim 56, wherein the film has a dart impact strength D, a modulus M, where M is the arithmetic mean of the machine direction and transverse direction 1% secant moduli, and a relation between D in g/μm and M in MPa such that:

$$D \geq 0.0315 \left[100 + e^{\left(11.71 - 0.03887M + 4.592 \times 10^{-5} M^2 \right)} \right].$$

59. (Previously Presented) The film of claim 56, wherein the natural draw ratio is at least 275%.

60. (Previously Presented) The film of claim 56, wherein the natural draw ratio is at least 300%.

61. (Previously Presented) The film of claim 56, wherein the tensile stress at the natural draw ratio is at least 24 MPa.

62. (Previously Presented) The film of claim 56, wherein the tensile stress at the natural draw ratio is at least 26 MPa.

63. (Previously Presented) The film of claim 56, wherein the tensile stress at second yield is at least 14 MPa.

64. (Previously Presented) The film of claim 56, wherein the film has a tensile stress at first yield of at least 9 MPa.

65. (Previously Presented) The film of claim 56, wherein the CDBI is at least 75%.

66. (Previously Presented) The film of claim 56, wherein the CDBI is at least 85%.

67. (Previously Presented) The film of claim 56, wherein the melt index is from 0.3 to 10 g/10 min.

68. (Previously Presented) The film of claim 56, wherein the density is from 0.916 to 0.940 g/cm^3.

69. (Previously Presented) The film of claim 56, wherein the density is from 0.918 to 0.935 g/cm^3.

70. (Previously Presented) The film of claim 56, wherein the melt index ratio is from 35 to 60.

71. (Previously Presented) The film of claim 56, wherein the Mw/Mn ratio is from 2.8 to 4.5.

72. (Previously Presented) The film of claim 56, wherein the Mw/Mn ratio is from 3.0 to 4.0.

73. (Currently Amended) An article wrapped with the film of Claim [[56]] 60.

74. (Previously Presented) A multilayer stretch film comprising:
        at least one first layer, and
        at least one second layer, wherein any one or more layers comprises a polyethylene copolymer with a Compositional Distribution Breadth Index (CDBI) of at least 70%, a melt index $I_{2.16}$ of from 0.1 to 15 g/10 min., a density of from 0.910 to 0.940 g/cm^3, a melt index ratio $I_{21.6}/I_{2.16}$ of from 30 to 80, and an Mw/Mn ratio of from 2.5 to 5.5, wherein:

the film has a natural draw ratio of at least 250%, a tensile stress at the natural draw ratio of at least 22 MPa, and a tensile stress at second yield of at least 12 MPa, as measured according to ASTM D-882/97; and

wherein a yield plateau of the film has a linear portion with a slope of at least 0.020 MPa per % elongation.

75. (Previously Presented) The film of claim 74, wherein the film has a dart impact strength D, a modulus M, where M is the arithmetic mean of the machine direction and transverse direction 1% secant moduli, and a relation between D in g/μm and M in MPa such that:

$$D \geq 0.0315\left[100 + e^{\left(11.71 - 0.03887M + 4.592 \times 10^{-5}M^2\right)}\right].$$

76. (Previously Presented) The film of claim 74, wherein the tensile stress at the natural draw ratio is at least 26 MPa, and the natural draw ratio is at least 300%.

77. (Previously Presented) The film of claim 74, wherein the film has a tensile stress at first yield of at least 9 MPa, and a second yield of at least 14 MPa, both yields measured according to ASTM D-882/97

78. (Previously Presented) The film of claim 74, wherein the CDBI is at least 85%; the melt index ratio is from 35 to 60; and the Mw/Mn ratio is from 3.0 to 4.0.

79. (Previously Presented) The film of claim 74, wherein the melt index is from 0.3 to 10 g/10 min, and the density is from 0.918 to 0.935 g/cm³.

80. (Previously Presented) An article wrapped with the film of Claim 74.

81. (Previously Presented) A method of wrapping an article, comprising:
    providing an article;
    providing the stretch film of claim 56; and
    wrapping the article with the stretch film.

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82. (Previously Presented) The method of claim 81, wherein the stretch film is provided in a pre-stretched condition.

83. (Previously Presented) The method of claim 81, further comprising applying a stretching force to the film before or during the step of wrapping the article with the stretch film.

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